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TITLE: DISCHARGE LAMP LIGHTING DEVICE

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ABSTRACT:

PURPOSE: To supply energy from a power source of voltage for lighting a lamp, directly to a filament, so as to further reduce the size of a discharge lighting device by providing a switch device for switching to a power source, a switching device, and to the filament, which are formed in a loop, at the time of pre- heating the filament of the lamp.

CONSTITUTION: When a switch device SW<SB>2</SB> is turned OFF, the current If supplied to filaments f<SB>1</SB>, f<SB>2</SB>, are cut, and a switching operation is actuated through a lamp L, and currents IL, IS that have slants

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according to the property of the lamp, are let run. In a method of supplying current to the lamp L through the switching of a switching device SW<SB>1</SB>, by providing the switch SW<SB>2</SB>, the pre-heating by pulsed current is achieved, utilizing the property of each filament f<SB>1</SB>, f<SB>2</SB> of the lamp L, omitting the need to provide another power source for preheating, and the size of a device can thus be reduced. Regarding the operation of the switching device, the same pattern is obtained even when the ON condition of the SW<SB>1</SB> is maintained during pre-heating, while ON/OFF operation is carried out by the SW<SB>2</SB>.

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